

smoothwall®

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Unified Threat Management

Advanced Firewall Upgrade Guide

For future reference

Advanced Firewall serial number:

Date installed:

Smoothwall contact:

Smoothwall® Advanced Firewall, Upgrade Guide, August 2014

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Acknowledgements

Smoothwall acknowledges the work, effort and talent of the Smoothwall GPL development team:

Lawrence Manning and Gordon Allan, William Anderson, Jan Erik Askildt, Daniel Barron, Emma Bickley, Imran Chaudhry, Alex Collins, Dan Cuthbert, Bob Dunlop, Moira Dunne, Nigel Fenton, Mathew Frank, Dan Goscomb, Pete Guyan, Nick Haddock, Alan Hourihane, Martin Houston, Steve Hughes, Eric S.

Johansson, Stephen L. Jones, Toni Kuokkanen, Luc Larochelle, Osmar Lioi, Richard Morrell, Piere-Yves Paulus, John Payne, Martin Pot, Stanford T. Prescott, Ralf Quint, Guy Reynolds, Kieran Reynolds, Paul Richards, Chris Ross, Scott Sanders, Emil Schweickerdt, Paul Tansom, Darren Taylor, Hilton Travis, Jez Tucker, Bill Ward, Rebecca Ward, Lucien Wells, Adam Wilkinson, Simon Wood, Nick Woodruffe, Marc Wormgoor.

Advanced Firewall contains graphics taken from the Open Icon Library project <http://openiconlibrary.sourceforge.net/>

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About This Guide

Advanced Firewall is a licenced feature of your Smoothwall System.

This manual provides guidance for installing and managing Advanced Firewall.

Audience and Scope

This guide is aimed at system administrators maintaining and deploying Advanced Firewall.

This guide assumes the following prerequisite knowledge:

- An overall understanding of the functionality of the Smoothwall System
- An overall understanding of networking concepts

Note: We strongly recommend that everyone working with Smoothwall products attend Smoothwall training. For information on our current training courses, contact your Smoothwall representative.

Organization and Use

This guide is made up of the following chapters and appendices:

- *Chapter 1, Upgrading to Advanced Firewall* on page 3
- *Chapter 2, Accessing Advanced Firewall* on page 11

Conventions

The following typographical conventions are used in this guide:

Item	Convention	Example
Key product terms	Initial Capitals	Advanced Firewall
Cross-references and references to other guides	Italics	See <i>Chapter 1, Upgrading to Advanced Firewall</i> on page 3
Filenames and paths	Courier	The <code>portal.xml</code> file
Variables that users replace	<i>Courier Italics</i>	<code>http://<my_ip>/portal</code>

This guide is written in such a way as to be printed on both sides of the paper.

Related Documentation

The following guides provide additional information relating to the Advanced Firewall feature:

- *Advanced Firewall Installation Guide* explains how to install the latest version of Advanced Firewall
- *Advanced Firewall Administration Guide* contains information on configuring and maintaining Advanced Firewall
- *Advanced Firewall User Portal Guide* contains information on using the Advanced Firewall portal for reporting and other tasks
- Add-on module guides explain how to use Smoothwall add-on modules with Advanced Firewall
- <http://www.smoothwall.net/> contains the Smoothwall support portal, knowledge base and the latest product manuals.

1 Upgrading to Advanced Firewall

In this chapter:

- How to upgrade from an earlier, compatible version of a Smoothwall System product to Advanced Firewall.

Warning!

Advanced Firewall's upgrade program **ERASES ALL DATA** on the hard disk or storage volume it detects. This includes any inserted USB storage device. Smoothwall cannot be held responsible for any loss of data.

Do not interrupt the upgrade process. If you cancel after confirming you want to upgrade, your previous settings will be lost.

Note: See *Upgrading Failover-enabled Systems* on page 10 for information on upgrading Advanced Firewall failover units.

Messages and Conventions

Advanced Firewall's upgrade and initial setup programs use a text-based interface that is compatible with all types of graphic card.

The following keyboard controls are used to interact with the programs:

Key	Explanation
Arrows	Move the cursor/focus/highlight between options.
Tab	Advances the focus to the next screen object.

Key	Explanation
Space	Clicks a button if it has the focus.
Enter or Return	Clicks a button if it has the focus. Will click the Ok button if the focus is not currently on a button.

The following on-screen buttons are used throughout the installation and setup process:

Button	Explanation
Cancel	Exits the current program without saving or activating any changes. If the Setup program is being run as part of the first-time setup process, the Cancel button will exit the setup program and require the upgrade process to be restarted.
Done	Indicates that configuration of the current feature is complete. Changes will be saved and activated and control will return to the menu or upgrade procedure.
Finished	Exits once all configuration changes have been completed in the Setup program.
Ok	Confirms the selection of the highlighted option, acknowledges a message or proceeds to the next screen.

Running Advanced Firewall's Quick Upgrade

Note: Before you start, we strongly recommend that you archive your current Advanced Firewall settings, see your *Advanced Firewall Administration Guide* for full information.

Advanced Firewall's quick upgrade automatically checks the computer and its hardware components and upgrades your Smoothwall System accordingly.

To upgrade to Advanced Firewall:

1. Insert the Advanced Firewall installation CD into the CD-ROM drive and reboot the computer. The following screen is displayed:

```

smoothwall® Advanced Firewall

[ F1: intro ] [ F2: license ] [ F3: modules ] [ F4: support ]

-----
WELCOME to Smoothwall Advanced Firewall 2008 SP6 [08:32:26-2011/06/04]
Thank you for purchasing an Advanced Firewall license - the complete firewall
and enterprise-class networking platform.

*****
* WARNING : ALL EXISTING DATA WILL BE ERASED FROM THIS SYSTEM'S HARD DISK *
*****

This software is subject to a proprietary license; press [F2] to view a summary
of this license. See LICENSE.html on the installation media for the complete
license text. All other software is subject to Open Source licenses, including
the GNU General Public License. This product and associated modules are not
activated when shipped. Internet access for automatic registration with the
Smoothwall Registration Server is required for product activation.

PRESS the [F2] key to view the license summary and continue.

boot: _

```

2. Press **Enter**. The following screen is displayed:

```

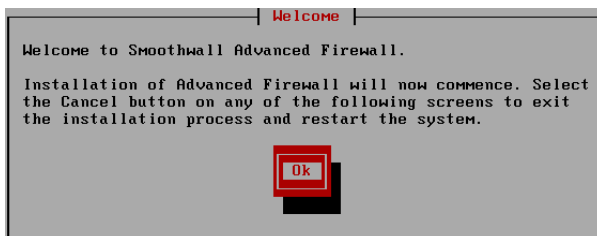
| Smoothwall |
Initialising drivers...

```

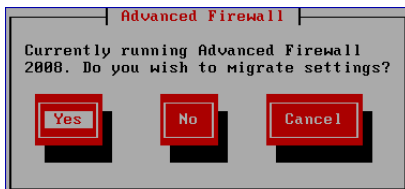

3. When the installation program has initialized the drivers, the following screen is displayed:



4. Wait 5 seconds for the following screen to be displayed:



5. Press Enter to continue. You are prompted to confirm that you want to upgrade, for example:



6. Select **Yes** and press Enter. The upgrade program saves your current settings and displays the following screen:



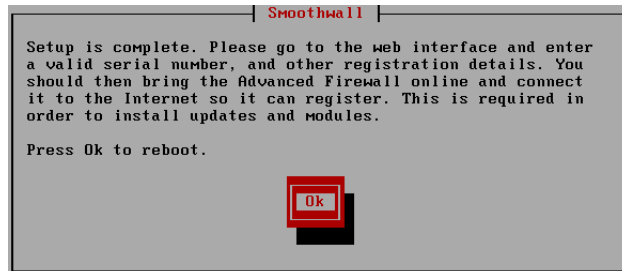
Note: Installing Advanced Firewall will **ERASE ALL DATA** from the computer's hard disk, storage device or any inserted USB storage device. Ensure that all valuable data is safely backed up before you continue.

This screen is the last opportunity you have to cancel the installation before data is erased. Smoothwall cannot be held responsible for any loss of data.

- Press Enter to continue. Advanced Firewall files are installed. When complete, the Congratulations! screen is displayed:



- Select **Ok** and press Enter. The following screen is displayed:



- Select **Ok** and press Enter to reboot the computer.

After rebooting, you can access Advanced Firewall from a network client running a web browser. For more information, see *Chapter 2, Accessing Advanced Firewall* on page 11.

Running Advanced Firewall's Advanced Upgrade

Advanced Firewall's advanced upgrade enables you to install and remove Advanced Firewall modules to suit your environment.

Note: Before you start, we strongly recommend that you archive your current Advanced Firewall settings, see your *Advanced Firewall Administration Guide* for full information.

To upgrade to Advanced Firewall:

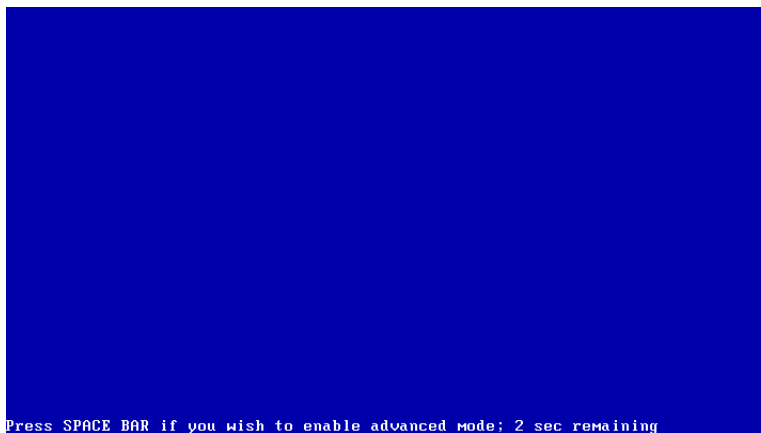
1. Insert the Advanced Firewall installation CD into the CD-ROM drive and reboot the computer. The following screen is displayed:



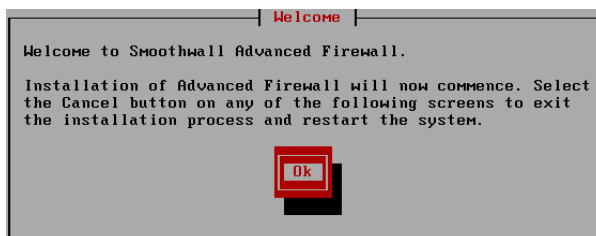
2. Press **Enter**. The following screen is displayed:



3. When the installation program has initialized the drivers, the following screen is displayed:



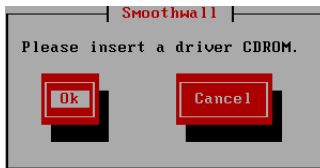
4. Press the space bar to access Advanced Firewall's advanced install. The following screen is displayed:



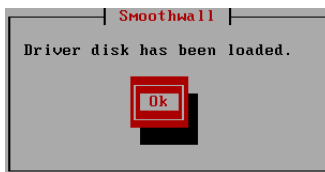
5. Press **Enter** to continue. The following screen is displayed:



6. If you are installing Advanced Firewall on a computer which requires non-standard drivers, this is where you install them. If you are not installing drivers, select **Done**, press Enter and go to *step 11*.
7. Select the medium on which the drivers are stored, select **Ok** and press Enter. You are prompted to insert the medium, for example:



8. Insert the medium into the appropriate drive and press Enter. The installation program loads the drivers and the following screen is displayed:



9. Press Enter. The following screen is displayed:



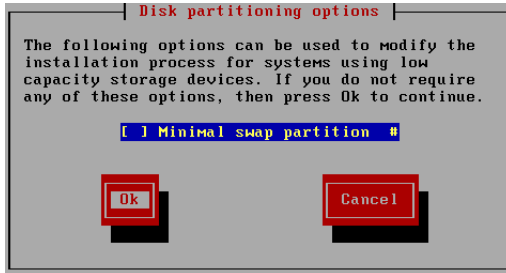
10. Repeat *step 7*. to *step 9*. above if you need to install more drivers. To continue, select **Done** and press Enter. The following screen is displayed:



11. When the drivers have been initialized again, you are prompted to confirm that you want to upgrade, for example:



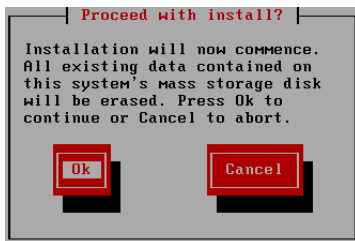
12. Select **Yes** and press Enter. The upgrade program saves your current settings and displays the disk partitioning options screen:



13. Here you can configure partition options.

Option	Description
Minimal swap partition	Select this option to reduce swap partition requirements.

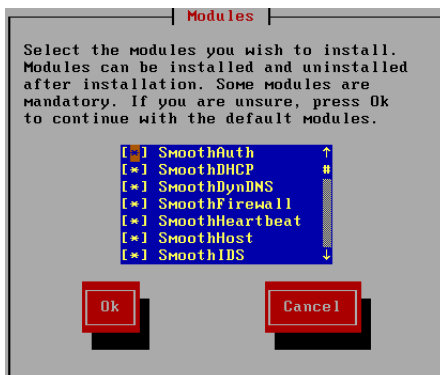
14. Select **Ok** to continue. The following screen is displayed:



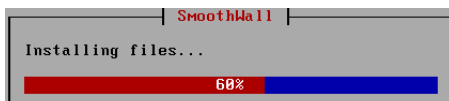
Note: Installing Advanced Firewall will **ERASE ALL DATA** from the computer's hard disk, storage device or any inserted USB storage device. Ensure that all valuable data is safely backed up before you continue.

This screen is the last opportunity you have to cancel the installation process before data is erased from the hard disk/storage device. Smoothwall cannot be held responsible for any loss of data.

15. Select **Ok** to continue. The installation program prepares the computer and installs Advanced Firewall. The Modules screen is displayed.



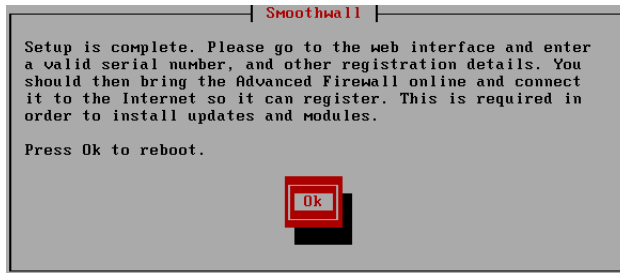
16. Select the modules you want to install, select **Ok** and press Enter to continue. Installation progress is displayed, for example:



Once complete, the Congratulations! screen is displayed:



17. Select **Ok** and press Enter. The following screen is displayed:



18. Select **Ok** and press Enter to reboot the computer.

After rebooting, you can access Advanced Firewall from a network client running a web browser. For more information, see *Chapter 2, Accessing Advanced Firewall* on page 11.

Upgrading Failover-enabled Systems

The following section describes the order in which to upgrade Advanced Firewall with hardware failover.

Note: When upgrading a hardware failover-enabled system, all settings on the failover unit are deleted. For full information on configuring and working with hardware failover-enabled systems, see your *Advanced Firewall Administration Guide*.

To upgrade the system:

1. On the master Advanced Firewall, navigate to the **System > Hardware > Failover** page and click **Enter standby mode**. The master enters standby mode and the failover unit becomes active.
2. Refresh your browser to ensure you have the correct settings displayed.
3. Upgrade and reboot Advanced Firewall, for more information, see *Running Advanced Firewall's Quick Upgrade* on page 4. This upgrades the failover unit. After rebooting, the master comes online again.
4. Refresh your browser to ensure you have the correct settings displayed.
5. Upgrade Advanced Firewall. This upgrades the master. See all of the previous sections in this document for full information on how to do this.
6. As all settings on the failover unit have been deleted during the upgrade process, you must reconfigure the unit by generating and applying a new failover unit setup archive. For more information on how to do this, see the latest *Advanced Firewall Administration Guide*.

2 Accessing Advanced Firewall

In this chapter:

- How to access Advanced Firewall
- Registering Advanced Firewall
- Checking for updates.

Accessing Advanced Firewall

Note: The examples in the following sections are illustrated using Mozilla Firefox. You can access and administer Advanced Firewall using the browser of your choice.

To access Advanced Firewall for the first time:

1. In the browser of your choice, enter the address of your Advanced Firewall, for example:
`https://10.0.0.3:441`

Note: The example address above uses HTTPS to ensure secure communication with your Advanced Firewall. It is possible to use HTTP on port 81 if you are satisfied with less security.

2. Accept Advanced Firewall's certificate. The login screen is displayed.
3. Enter the following information:

Field	Information
Username	Enter <code>admin</code> . This is the name of the default Advanced Firewall administrator account.
Password	Enter the admin password.

4. Click **Login**.

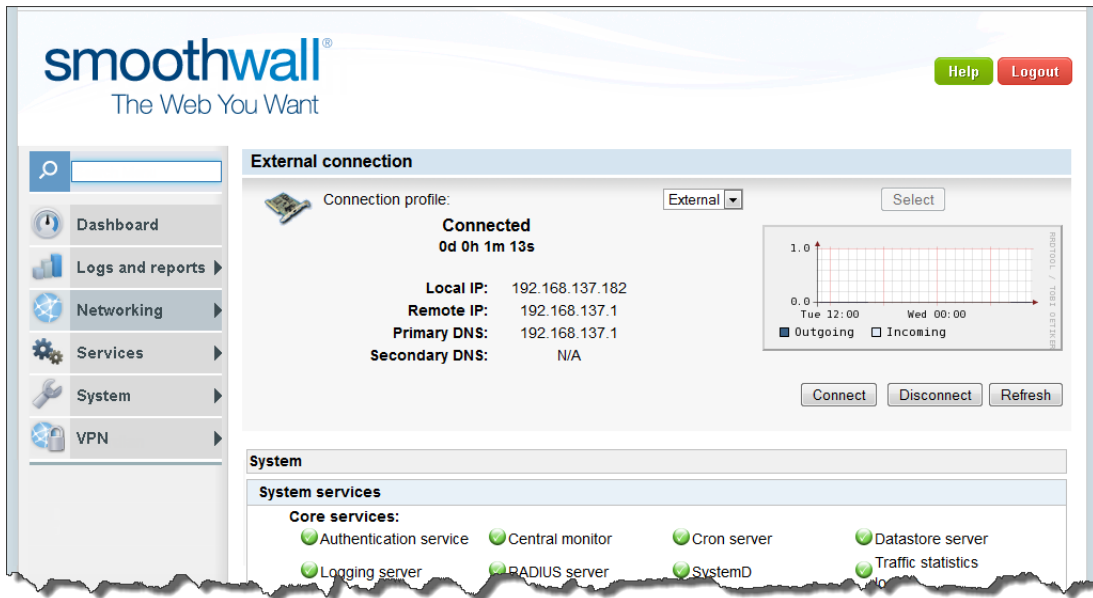
The following page opens:

5. Enter the following information:

Information	Enter:
Serial number	The serial number you received with your copy of Advanced Firewall. Serial numbers are not case sensitive and can be entered with or without spaces. If you do not have a serial number, contact your Smoothwall representative or, visit http://www.smoothwall.net/ for more information.
Name	The name of the administrative contact person for Advanced Firewall.
Organization	The name of the organization in which Advanced Firewall will reside.
Department	The name of the department in which Advanced Firewall will reside.
Locality or town	Location information for Advanced Firewall.
State	Regional location information for Advanced Firewall.
Country	The country in which Advanced Firewall will reside
Email	The email address of the administrative contact for Advanced Firewall. This should be a valid and actively used email account.

6. Click **Save**. When prompted, review the information you have supplied and then click **Confirm**.

The Dashboard opens.



The dashboard is Advanced Firewall's default home page.

Note: What is working and displayed here depends on what settings were configured in the system you are upgrading from.

The following sections explain how to connect to the Internet, if not already connected; how to check for and install updates and how to install modules.

Connecting to the Internet

If the Smoothwall System you are upgrading from was connected to the Internet, the upgrade program will preserve the connection. If there is no connection, you must create a connectivity profile and connect to the Internet.

To connect Advanced Firewall to the Internet:

1. Browse to the **Networking > Interfaces > Connectivity** page:

The screenshot shows the Smoothwall web interface for the Connectivity page. At the top, there's a navigation breadcrumb: Networking » Interfaces » Connectivity. A warning banner states: "Warning - Your system is currently not registered. Connect to the Internet, at which point your system will automatically register itself." Below this is a "Profiles" section with a dropdown menu set to "Empty" and buttons for "Select" and "Delete". The "Global settings" section includes:

- Method: Static Ethernet (dropdown)
- Auto connect on boot:
- Custom MTU: (text input)
- Automatic failover to profile: Disabled (dropdown)
- Primary failover ping IP: (text input)
- Secondary failover ping IP: (text input)
- Load balance outgoing traffic:
- Load balance web proxy traffic:
- Weighting: 1 (dropdown)

 An "Update" button is at the bottom of the global settings. The "Static Ethernet settings" section includes:

- Interface: (dropdown)
- Default gateway: (text input)
- Address: (text input)
- Netmask: (text input)
- Primary DNS: (text input)
- Secondary DNS: (text input)

 "Save" and "Save and connect" buttons are at the bottom.

2. Configure the following settings:

Setting	Description
Profile name	Enter a name for the connectivity profile.
Method	From the drop-down list, select the connection method that fits your ISP's specifications. For full information on the different ways you can connect Advanced Firewall to the Internet, see the <i>Advanced Firewall Administration Guide</i> .

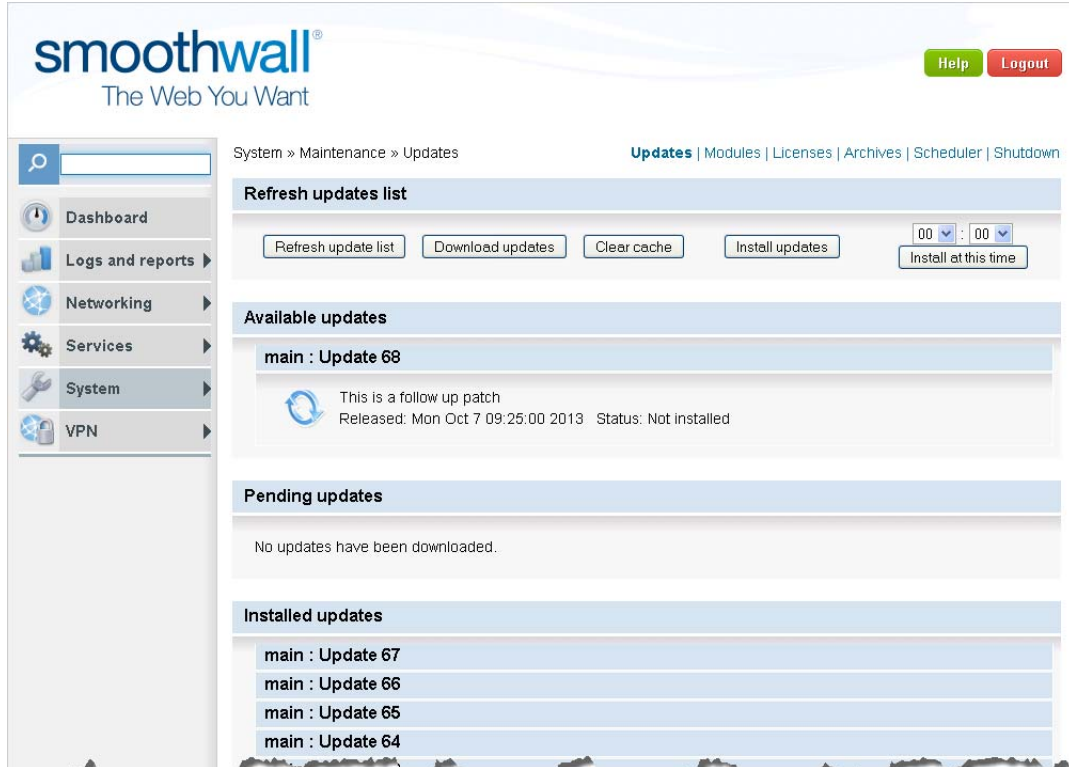
3. Click **Update** and in the area below, enter the settings that apply to the connection method you have chosen.
4. Click **Save and Connect** to save the profile and connect Advanced Firewall to the Internet.
You can now review Advanced Firewall functionality. For more information, see the *Advanced Firewall Administrator's Guide*.

Installing Updates

You should ensure that Advanced Firewall has the latest updates installed.

To check for and install updates:

1. Navigate to the **System > Maintenance > Updates** page:



2. Click **Refresh update list**. The Available updates area displays any updates available.
3. Click **Download updates** to get the updates and then click **Install updates**. The updates are installed.

Managing the Auth Password

To maintain a high level of security, you must re-enter Advanced Firewall's authentication service password when using an LDAP server for user authentication.

To re-enter the password:

1. Navigate to the **Services > Authentication > Settings** page
2. From the **LDAP server type** drop-down list, select the server type you are using and click **Update** to refresh the settings and information displayed.
3. Configure the following settings:

Setting	Explanation
Server password	Enter the password for your LDAP server
Again	Re-enter the password to confirm it.

4. Click **Save**.

5. On the **Services > Authentication > Control** page, click **Restart** to restart the service.

For full information on working with Advanced Firewall, see the *Advanced Firewall Administration Guide*.

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